BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

1ST AND FINAL BILL

Name of work: Improvements to Roads, Drains and Culverts at Balaji Layout and Surrounding area at Kodigehalli Ward No. 08.

Estimated Cost : Rs. 60.00 Lakhs

Job Code: 008-19-000038

Head of Account : P-3522

Name of Agency: Sri Gangulureddy. A, # 490/B, 12th C Cross, Vyalikaval, Malleshwaram, Bangalore 560003.

Work order No: BBMP/EE/BTP/WO/10/2020-21 Date: 11.05.2020.

	Date of Recording:								
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								
		Cum							
	Qty as per Premeasurement Vide E- MB Page No. 01 is =						**709.76**	300.00	**212928.00**
2	Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.							Cum	
	RCC Drains	Cum							
	Qty as per Premeasurement Vide E- MB Page No. 02 is =						**105.87**	5600.00	**592872.00**
3	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.							Cum	
		Cum	1x2	11.00	0.60	0.90	11.88		
							11.88	6000.00	**71280.00**
4	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.							Cum	
	Coping & Vent	Cum	1	11.00	1.80	0.10	1.98		
	Ramp		1x2	11.00	1.10	0.15	3.63		
	Ramp in Front of Houses								
	4th Main Balaji Layout R/S		1	10.00	0.30	0.10	0.30		
			1	9.00	0.30	0.10	0.27		
			1	12.00	0.30	0.10	0.36		
			1	9.00	0.30	0.10	0.27		
			1	10.00	0.30	0.10	0.30		
			1	5.00	0.30	0.10	0.15		
	4th Main Balaji Layout L/S		1	10.00	0.30	0.10	0.30		
			1	12.00	0.30	0.10	0.36		
			1	9.00	0.30	0.10	0.27		
			1	9.00	0.30	0.10	0.27		

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Assistant Engineer

8.06

Assistant Executive Engineer

Sl. No		Unit	No.	L	B	D	Qty	Rate	Amount
			1	8.00	0.30	0.10	0.24		
			1	6.00	0.30	0.10	0.18		
	R/S		1	10.00	0.30	0.10	0.30		
			1	8.00	0.30	0.10	0.24		
	Cross Road R/S		1	6.00	0.30	0.10	0.18		
			1	8.00	0.30	0.10	0.24		
			1	9.00	0.30	0.10	0.27		
	Cross Road L/S		1	6.00	0.30	0.10	0.18		
			1	7.00	0.30	0.10	0.21		
	UGD Cutting Portion								
	CC Road Patches 5th Main 5th Cross Balaji Layout		1	2.50	3.00	0.15	1.13		
			1	5.00	2.50	0.15	1.88		
			1	3.20	1.80	0.15	0.86		
	Subramani Reddy House Road		1	2.60	1.50	0.20	0.78		
			1	3.50	1.80	0.20	1.26		
			1	3.90	2.20	0.20	1.72		
			1	1.80	1.00	0.15	0.27		
			1	4.00	2.00	0.15	1.20		
			1	3.20	2.80	0.15	1.34		
	Venkatesh Naidu House Road		1	18.20	0.75	0.15	2.05		
			1	3.80	1.75	0.15	1.00		
			1	2.00	1.10	0.15	0.33		
			1	1.80	2.20	0.15	0.59		
			1	2.20	1.50	0.15	0.50		
			1	3.20	2.00	0.15	0.96		
					Total Qty =		**26.36**		
					Limited to Tender Qty =		**26.19**	5900.00	**154521.00**
5	Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.							Sqm	
	Pointing	Sqm	1x2	11.00		0.90	19.80		
							19.80	200.00	**3960.00**
6	Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm.							Cum	
	Drain Bottom Concrete	Cum							
	4th Main Balaji Layout R/S		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	10.20	0.90	0.15	1.38		
	4th Main Balaji Layout L/S		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	10.50	0.90	0.15	1.42		
	R/S		1	30.60	0.90	0.15	4.13		
	L/S		1	29.30	0.90	0.15	3.96		
	R/S		1	30.00	0.90	0.15	4.05		
			1	24.90	0.90	0.15	3.36		
	L/S		1	30.00	0.90	0.15	4.05		
			1	25.50	0.90	0.15	3.44		
	Cross Road R/S		1	30.00	0.90	0.15	4.05		

17.91 Cafe Dey 10/8/2020

Assistant Executive Engine
Kodigehalli Sub Divisi
hanka Zone, B.B.M.P
Bangalore.

Cafe Dey 4/17

Assistant Executive Engineer
Kodigehalli Sub Divisi
ka Zone, B.B.M.P.
Bangalore.

70.34 Cafe Dey

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Divisi

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	8.10	0.90	0.15	1.09		
	Cross Road L/S		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	7.20	0.90	0.15	0.97		
	Side Wall								
	4th Main Balaji Layout R/S		2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	10.20	0.15	0.60	1.84		
	4th Main Balaji Layout L/S		2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	10.50	0.15	0.60	1.89		
	R/S		2	30.60	0.15	0.60	5.51		
	L/S		2	29.30	0.15	0.60	5.27		
	R/S		2	30.00	0.15	0.60	5.40		
			2	24.90	0.15	0.60	4.48		
	L/S		2	30.00	0.15	0.60	5.40		
			2	25.50	0.15	0.60	4.59		
	Cross Road R/S		2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	8.10	0.15	0.60	1.46		
	Cross Road L/S		2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.60	5.40		
			2	7.20	0.15	0.60	1.30		
							216.18		
							216.09	7070.00	1527756.00
7	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**							Tonne	
		Tonne							
	Qty as per Premeasurement Vide E- MB Page No. 03 is =						12.97	75223.00	975642.00
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete							Nos	
	4th Main Balaji Layout R/S	Nos	1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	10.20		/0.45	23		
	4th Main Balaji Layout L/S		1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	30.00		/0.45	67		

Assistant Engineer

Assistant Executive Engineer

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	30.00		/0.45	67		
			1	10.50		/0.45	23		
	R/S		1	30.60		/0.45	68		
	L/S		1	29.30		/0.45	65		
	R/S		1	30.00		/0.45	67		
			1	24.90		/0.45	55		
	L/S		1	30.00		/0.45	67		
			1	25.50		/0.45	57		
	Cross Road R/S		1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	8.10		/0.45	18		
	Cross Road L/S		1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	30.00		/0.45	67		
			1	7.20		/0.45	16		
							1525		
							1524	500.00	**762000.00**
9	Providing and applying ready mix priming coat **over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.							Sqm	
	4th Main Balaji Layout R/S	Sqm	1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	10.20		0.45	4.59		
	4th Main Balaji Layout L/S		1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	10.50		0.45	4.73		
	R/S		1	30.60		0.45	13.77		
	L/S		1	29.30		0.45	13.19		
	R/S		1	30.00		0.45	13.50		
			1	24.90		0.45	11.21		
	L/S		1	30.00		0.45	13.50		
			1	25.50		0.45	11.48		
	Cross Road R/S		1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	8.10		0.45	3.65		
	Cross Road L/S		1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	30.00		0.45	13.50		
			1	7.20		0.45	3.24		
							308.84		
							308.70	50.00	**15435.00**

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Divis
Yelahanka Zone, B.B.
Bangalore.

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.							Sqm	
		Sqm	Qty Vide Item No. 9				**308.70**	120.00	**37044.00**
11	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data rate							Sqm	
	Culvert Covering Slab	Sqm	19	1.80	0.60		20.52		
							20.52	5700.00	**116964.00**
12	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data rate							Sqm	
	Covering Slab	Sqm							
	4th Main Balaji Layout R/S		1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	10.20	0.90		9.18		
	4th Main Balaji Layout L/S		1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	10.50	0.90		9.45		
	R/S		1	30.60	0.90		27.54		
	L/S		1	29.30	0.90		26.37		
	R/S		1	30.00	0.90		27.00		
			1	24.90	0.90		22.41		
	L/S		1	30.00	0.90		27.00		
			1	25.50	0.90		22.95		
	Cross Road R/S		1	16.00	0.90		14.40		
							456.30		
							455.40	2337.00	1064270.00
	Sub Total								5534672.00
	GST @ 12%								664161.00
								Total	6198833.00

Rupees Sixty One Lakh(s) Ninety Eight Thousand Eight Hundred Thirty Three Only

Assistant Engineer
Ward No. 08
10/8/2020

Assistant Executive Engineer
Kodigehalli Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads, Drains and Culverts at Balaji Layout and Surrounding area at Kodigehalli Ward No. 08.

Estimated Cost : Rs. 60.00 Lakhs

Job Code: 008-19-000038

Head of Account : P-3522

Name of Agency: Sri Gangulureddy. A, # 490/B, 12th C Cross, Vyalikaval, Malleshwaram, Bangalore - 560003.

Work order No: BBMP/EE/BTP/WO/10/2020-21 Date: 11.05.2020.

Date of Recording:

Sl. No	Description	Unit	No.	L	B	D	Qty
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						
	RCC Drains	Cum					
	4th Main Balaji Layout R/S		1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	10.20	1.00	1.00	10.20
	4th Main Balaji Layout L/S		1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	10.50	1.00	1.00	10.50
	R/S		1	30.60	1.00	1.00	30.60
	L/S		1	29.30	1.00	1.00	29.30
	R/S		1	30.00	1.00	1.00	30.00
			1	24.90	1.00	1.00	24.90
	L/S		1	30.00	1.00	1.00	30.00
			1	25.50	1.00	1.00	25.50
	Cross Road R/S		1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	8.10	1.00	1.00	8.10
	Cross Road L/S		1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	30.00	1.00	1.00	30.00
			1	7.20	1.00	1.00	7.20
	Culverts		1	11.00	1.80	1.20	23.76
						Total Qty =	710.06
						Limited to Tender Qty =	709.76

Assistant Engineer
Ward No. 08
22/6/20

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Sl. No	Description	Unit	No.	L	B	D	Qty
	Date of Recording:						
2	Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	RCC Drains	Cum					
	4th Main Balaji Layout R/S		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	10.20	1.00	0.15	1.53
	4th Main Balaji Layout L/S		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	10.50	1.00	0.15	1.58
	R/S		1	30.60	1.00	0.15	4.59
	L/S		1	29.30	1.00	0.15	4.40
	R/S		1	30.00	1.00	0.15	4.50
			1	24.90	1.00	0.15	3.74
	L/S		1	30.00	1.00	0.15	4.50
			1	25.50	1.00	0.15	3.83
	Cross Road R/S		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	8.10	1.00	0.15	1.22
	Cross Road L/S		1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	30.00	1.00	0.15	4.50
			1	7.20	1.00	0.15	1.08
	Culverts		1	11.00	1.80	0.15	2.97
						Total Qty =	**105.92**
						Limited to Tender Qty =	**105.87**

Assistant Engineer
Ward No. 08
24/6/2020

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Div.
Yelahanka Zone, B.B.M.P.
Bangalore.

Sl. No	Description	Unit	No.	L	B	D	Qty
	Date of Recording:						
7	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**						
		Tonne					
		Nos	L	M	Kg/m	Kgs	
	10 mm	2x1457	2.20	6410.80	0.62	3974.70	
	8 mm	2x16	160.20	5126.40	0.39	1999.30	
	10 mm	2x279	2.20	1227.60	0.62	761.11	
	8 mm	2x16	30.60	979.20	0.39	381.89	
	10 mm	2x501	2.20	2204.40	0.62	1366.73	
	8 mm	2x16	55.10	1763.20	0.39	687.65	
	10 mm	2x955	2.20	4202.00	0.62	2605.24	
	8 mm	2x16	98.10	3139.20	0.39	1224.29	
						13000.90	
					Total Qty =	13.00	
					Qty Limited to =	12.97	

27/6

Assistant Executive Engine
Kodigehalli Sub Divisi
Yelahanka Zone, B.B.M.P
Bangalore.

Assistant Engineer
Ward No. 08
27/6/2020

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Divisi
Yelahanka Zone, B.B.M.P.
Bangalore.